

WHAT IS CLAIMED IS:

1. A pulse wave monitoring device comprising:

a pulse wave detection device configured to detect a pulse wave of a subject;

a computation unit that identifies a plurality of characteristic points of the pulse wave detected by the pulse wave detection device, calculates a plurality of characteristic parameters corresponding to the identified characteristic points and calculates an index indicative of a pulse wave reflection by performing a computation on the characteristic parameters;

a blood pressure measuring device configured to measure a blood pressure of the subject; and

a display unit that shows the calculated index and the measured blood pressure.

2. The pulse wave monitoring device of claim 1, wherein a first characteristic point of the characteristic points corresponds to a peak of a traveling wave component of the detected pulse wave and a second characteristic point of the characteristic points correspond to a peak of a reflection wave component of the detected pulse wave, the reflection wave component being generated as a result of a reflection of the traveling wave component, and the index is a ratio of amplitudes of the pulse wave at the first and second characteristic points.

3. The pulse wave monitoring device of claim 1, wherein a first characteristic point of the characteristic points corresponds to a traveling wave component of the detected pulse wave and a second characteristic point of the characteristic points correspond to a reflection wave component of the detected pulse wave, the reflection wave component being generated as a result of a reflection of the traveling wave component, and the index is a time difference between the first and second characteristic points.

4. The pulse wave monitoring device of claim 1, 2 or 3, wherein the computation unit adjusts the calculated index based on an adjustment factor of the subject.

5. The pulse wave monitoring device of claim 2, wherein the index comprises an augmentation index.

6. The pulse wave monitoring device of claim 5, wherein the computation unit adjusts the calculated augmentation index based on a pulse of the subject.

7. The pulse wave monitoring device of claim 3, wherein the index comprises  $\Delta T_p$ .

8. The pulse wave monitoring device of claim 7, wherein the

computation unit adjusts the calculated  $\Delta T_p$  based on a height of the subject.

9. The pulse wave monitoring device of any of claims 1-3 or 5-8, further comprising a memory device that stores a plurality of the calculated indices and a plurality of the measured blood pressures in a chronological order.

10. The pulse wave monitoring device of claim 9, wherein the display unit shows the calculated indices and the measured blood pressures in the chronological order.

11. The pulse wave monitoring device of any of claim 1-3 or 5-8, wherein the display units shows a prescription determined based on a correlation between the calculated index and the measured blood pressure.

12. A pulse wave monitoring device comprising:

a pulse wave detection device configured to detect a pulse wave of a subject;

a computation unit that calculates a plurality of different indices based on a wave form of the detected pulse wave, each of the different indices being indicative of a pulse wave reflection; and

a display unit that shows a correlation between at least two of the different indices.

13. The pulse wave monitoring device of claim 12, wherein the display unit shows a prescription determined based on the correlation.

14. The pulse wave monitoring device of claim 12, further comprising a blood pressure measuring device configured to measure a blood pressure of the subject, wherein the display unit is configured to show a correlation between the measured blood pressure and at least one of the different indices.

15. The pulse wave monitoring device of claim 12 or 13, further comprising a memory device that stores a plurality of the calculated indices for each of the different indices in a chronological order.

16. The pulse wave monitoring device of claim 14, further comprising a memory device that stores a plurality of the calculated indices for each of the different indices and a plurality of the measured blood pressures in a chronological order.

17. The pulse wave monitoring device of claim 15, wherein the display unit shows the calculated indices stored in the memory device for at least two of the different indices in the chronological order.

18. The pulse wave monitoring device of claim 16, wherein the display unit shows the calculated indices stored in the memory device

for at least one of the different indices and the measured blood pressures stored in the memory device in the chronological order.

19. The pulse wave monitoring device of claim 12, 13, 14, 16 or 18, wherein the computation unit adjusts at least one of the different indices based on an adjustment factor of the subject.

20. The pulse wave monitoring device of claim 12, 13, 14, 16 or 18, wherein one of the indices comprises an augmentation index.

21. The pulse wave monitoring device of claim 20, wherein the computation unit adjusts the calculated augmentation index based on a pulse of the subject.

22. The pulse wave monitoring device of claim 20, wherein one of the index comprises  $\Delta T_p$ .

23. The pulse wave monitoring device of claim 22, wherein the computation unit adjusts the calculated  $\Delta T_p$  based on a height of the subject.

24. The pulse wave monitoring device of any of claim 14, 16 or 18, wherein the display units shows a prescription determined based on a correlation between one of the indices and the blood pressure.